

Mathematics M2e

Summer

(engl. Mathematics M2e)

Module-ID: FMA-INF-5013262

Link:	(Angeboten wenn im LSF)
Responsibility:	Prof. Dr. Thomas Richter
Lecturer:	, Prof. Dr. Thomas Richter
Classes:	• Lecture <i>Mathematics M2e</i> • Global tutorial <i>Mathematics M2e</i> • Group tutorial <i>Mathematics M2e</i>

Credit Points	Semester	Term	Duration	Language	Level
5	Summer	3.	1 Semester	english	Bachelor

Goals and qualifications:

The students acquire comprehension of and familiarity with concepts and methods that are relevant for subject-specific classes in the areas of engineering and computer science. They develop technical skills by applying those methods, in particular to subject-specific examples. The topical focus of the module is on an introduction to calculus.

Content:

- Convergence and continuity
- Differential calculus (1-dimensional)
- Ordinary differential equations (examples, methods to solve homogeneous linear ODE's of second order with constant coefficients)
- Calculus of integrals (1-dimensional)
- Differential calculus (n-dimensional)
- Examples of partial differenzial equations

Workload:

	In class	Self-study
Lecture	3 SWS / 42 h	66 h
Global tutorial	2 SWS / 28 h	
Group tutorial	1 SWS / 14 h	

Prerequisites for participation:	Pre-examination requirements:	Type of examination:

Applicability in curriculum:	- B.Sc. INF: Mathematik / Logik - B.Sc. INF: Mathematik (SPO 2027) - B.Sc. CV: Mathematik / Logik - B.Sc. CV: Mathematik (SPO 2027) - B.Sc. INGINF: Mathematik / Logik - B.Sc. INGINF: Mathematik (SPO 2027) - B.Sc. WIF: Verstehen - Pflicht - B.Sc. WIF: Mathematik (SPO 2027) - B.Sc. INF (bilingual): Mathematik / Logik - B.Sc. INF (bilingual): Mathematik (SPO 2027)
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Comments:

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